

5th Edition of

Chemistry World Conference

Theme: Chemistry:
Innovations, Applications,
and Sustainability

02-04TH
JUNE
2025

Our OCMs



YONG XIAO WANG
Albany Medical College,
United States



QIANG ZHANG,
Oak Ridge National Laboratory,
United States



HAIBO GE
Texas Tech University,
United States



HOSSAM A GABBARIN
Ontario Tech University
Canada



ANDY BROWN
Progressive Energy Ltd.
United Kingdom



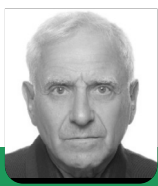
STANISLAW DZWIGAJ
Sorbonne Universite, France



SERGE COSNIER
Silesian University of Technology,
Poland



SERGEY SUCHKOV
Centro de Estudios de la
Fotosynthesis Humana, Mexico



ALEXANDER
BAGATURYANTS
Russian Academy of Science,
Russian Federation

Scientific TOPICS

- Analytical and bio analytical Chemistry
- Medicinal Chemistry and Drug Discovery
- Nano science and Materials Chemistry
- Structural Chemistry
- Chemical Engineering
- Future Scope of Chemistry
- Catalysis and Reaction Engineering
- Biochemistry
- Organometallic Chemistry
- Electrochemistry
- Environmental and Green Chemistry
- Forensic and Clinical Chemistry
- Marine and Geo Chemistry
- Industrial Chemistry

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VENUE

NH Villa Carpegna
Via Pio IV, 6, 00165 Roma RM, Italy

Keynote Presentation

Yong Xiao Wang, Albany Medical College, United States

Title: Pharmaceutical chemistry studies of novel biologics and drugs for chronic obstructive pulmonary disease

Kyeongjae Cho, University of Texas at Dallas, United States

Title: Rational design of battery cathode materials

Haibo Ge, Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

Hossam A Gabbar, Ontario Tech University, Canada

Title: Advances in plasma-based waste treatment for sustainable communities

Andy Brown, Progressive Energy Ltd, United Kingdom

Title: Carbon capture and storage: The impact of impurities in CO₂ streams

Stanislaw Dzwigaj, Sorbonne Universite, France

Title: Chemical engineering of vanadium and tantalum zeolites for application in environmental catalysis

Serge Cosnier, Silesian University of Technology, Poland

Title: Nanostructured biodevices based on carbon nanotubes and glyconanoparticles for bioelectrocatalytic applications

Sergey Suchkov, Centro de Estudios de la Fotosynthesis Humana, Mexico

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model through biodesign-inspired bio- and chemical engineering applications to secure the human healthcare and biosafety

Thomas J Webster, Hebei University of Technology, China

Title: Supramolecular nano chemistries: Fighting viruses, inhibiting bacteria and growing tissues

Shree Niwas Chaturvedi, Centre for Aptitude Analysis and Talent Search, India

Title: Hot atom chemistry - past, present and future

Oral Presentation

Fu Ming Tao, California State University, United States

Title: The chemistry of atmospheric smog and aerosols: Critical roles of ammonia

Zerihun Assefa, North Carolina A&T State University, United States

Title: Modulation of structural and spectroscopic properties in a series of metal atoms ranging from transition to lanthanide to actinide atoms connected through bridging ligands

Caylie Casto, Southern Methodist University, United States

Title: Blue light receptor 1: Homologs, interactions, and its role in fungal systems and beyond

Wei Wu, University College London, United Kingdom

Title: The powerful capacities of polymers for the adsorption of the mercury ions in water

Oluchukwu Alope, SLB, United Kingdom

Title: New scale dissolver for the removal of elemental metal deposits

Carmen Kaiser Brugmann, Rigaku Europe SE, Germany

Title: The elemental analysis of granulated blast furnace slag using WDXRF for conformity as per the EN 197-1 International standard

Luca Vattuone, University of Genoa, Italy

Title: H₂ dissociation at Ni(111) supported single-layer graphene

Davide Gentile, Politecnico di Milano, Italy

Title: Zein-based reversible and irreversible substrates for flexible electronics

Davide Frumento, University of RomaTre, Italy

Title: Glioblastoma treatment: Small molecule Tyrosine Kinase Inhibitors (TKIs)

Ferran Acuna Pares, Universidad Internacional de la Rioja (UNIR), Spain

Title: Disrupting TNF- α and TNFR1 interaction: Computational insights into the potential of D-Pinitol as an anti-inflammatory therapeutic

Theodosios Geo Douvropoulos, Hellenic Naval Academy, Greece

Title: An AlGaAs/GaAs quantum resonant-tunneling based model thermometer

Davor Margetic, Ruđer Bošković Institute, Croatia (Hrvatska)

Title: Mechanochemical synthesis of thioureas and guanidines

Pradip Kumar Das, Institute of Sustainability for Chemicals, Energy and Environment (ISCE2), Singapore

Title: Aromaticity-driven electrocatalytic water splitting by pincer-type cobalt-based complex

Silvia Elizabeth Asis, Universidad de Buenos Aires, Argentina

Title: Design and synthesis of nitrogen heterocycles with antileishmanial activity: From natural products inspiration to 2D/3D QSAR models

Gabriel Nicolai, University of Campinas - UNICAMP, Brazil

Title: Comparative simulation of isopropyl palmitate synthesis in a microreactor with static elements and a batch reactor

Gilberto Lucio Benedito de Aquino Aquino, UEG, Brazil

Title: Quantification of alkaloids in ayahuasca similar seized material using qNMR

Makarov Vladimir, Institute of Permafrost Science, Russian Federation

Title: Migration of organic carbonic acids in the snow cover of permafrost landscapes of Eastern Siberia

Valery P Kalinitchenko, All-Russian Phytopathology Research Institute, Big Vyazyomy, Institute of Fertility of Soils of South Russia, Russian Federation

Title: Chemical-soil-biological engineering and biogeosystem technique methodology in shaping sustainable future

Mohamed Mahmoud, Saudi Aramco, Saudi Arabia

Title: Formation of pseudo-scale due to incompatible field chemical at oil and gas field water pipelines

Stanislav Alexandra Alina, OBBCSSR, Romania

Title: Testing the association between the UCP2 gene RS659366 with metabolic syndrome in patients with obesity from county emergency hospital Giurgiu Romania

Sergey Suchkov, Centro de Estudios de la Fotosynthesis Humana, Mexico

Title: Antibody-proteases as a generation of unique biomarkers, biocatalysts, potential targets and translational tools towards nanodesign-driven biochemical engineering and precision medical practice

Xun Yuan, Qingdao University of Science & Technology, China

Title: Surface engineering of ultrasmall metal nanoclusters for biomedical applications

Chaoyu Xiang, Ningbo Institute of Materials Technology and Engineering (NIMTE) of the Chinese Academy of Sciences (CAS), China

Title: Homogeneous nucleation and growth for synthesizing highly efficient and stable perovskite quantum dots and their light-emitting diodes

Yao Lu, Southern University of Science and Technology, China

Title: High-performance chalcogenide-based thermoelectric films and devices for self-powered flexible electronics

Angyang Yu, Zhejiang Sci-Tech University, China

Title: A unified explanation for the mechanism of room-temperature superconductivity

Yao Lu, Southern University of Science and Technology, China

Title: High-performance chalcogenide-based thermoelectric films and devices for self-powered flexible electronics

Pengju Wu, School of Energy and Power Engineering Jiangsu University, China

Title: Current research progress in heavy metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts

Quan Jia Xin, Hanjiang Normal University, China

Title: Design and construction of subnano channel membranes by pillararenes and their selective adsorption properties for small organic molecules

Anil Kumar Batta, Muzaffarnagar Medical College, India

Title: Polymer chemistry in living cells

Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India

Title: Role of d electrons in multifunctional materials

S Nawazish Mehdi, Osmania University, India

Title: Reduction in engine emissions by the use of chemical mixture of turmeric leaf oil and diesel blends

Indresh Singh, Vellore Institute of Technology, India

Title: Development of new biocompatible and functionalized polyurethane sponges for efficient separation of oil from water emulsions

Priyanka Singh, Vellore Institute of Technology, India

Title: Impact of plastic pollution on agricultural soil: Analysing extracellular polymeric substances and morphological changes in microplastics with sludge amendments

Sarama Saha, AIIMS, India

Title: Impact of SOST (Sclerostin) and LRP5 (low-density lipoprotein receptor-related protein- 5) genotype variant in early onset type 2 diabetes mellitus among young Indians

Komala Pandurangan, REVA University, India

Title: Effects of ligands and counterions on Mn(III) spin crossover phenomenon

Ayushi Rana, Galgotias University, India

Title: Toxicological trend in Prayagraj, Uttar Pradesh, India

Zohra Ulfat Shaikh, KC College, India

Title: Monitoring heavy metal pollution in bandra lake with EDXR : A study of seasonal variation at 30 days interval

Bhaskar Chakraborty, Sikkim Government College, India

Title: Green chemistry protocol for the synthesis of some new scaffolds of isoxazolidine & isoxazoline derivatives via 1,3-dipolar cycloaddition reaction and potential biological activities of the cycloadducts

Kundan Sharma, Govt. College Nagrota Bagwan, India

Title: Indigenous technologies to check food adulteration: A native approach

Arun K Shandilya, Dr.H.S.G.University Sagar, India

Title: Discovery of helium in rocks of vindhyas super group around sagar, South Ganga Basin, Bundelkhand region M.P. India

Asish Bhaumik, Girijananda Chowdhury University, India

Title: Ionophores: Modulators of cellular ion homeostasis and emerging therapeutic agents

Garnik Sargsyan, Institute of Chemical Physics NAS of Armenia, Armenia

Title: Investigation of weak shock waves in reactors under oxidation of propane and experimental evidence for the presence of a saddle-type singular point in the reactor center

Fayez M Eissa, Aswan University, Egypt

Title: Traditional chemistry makeup through green and sustainable methodologies

Sarra Kitanou, ITU, Morocco

Title: Application of response surface methodology to analyze the impact of operational parameters in membrane bioreactor

El Mokhtar El Hafidi, Chouaib Doukkali University, Morocco

Title: Integrating conventional filtration and impedance spectroscopy for wastewater treatment

Othmane Essahili, Mohamed 6 Polytechnic University UM6P, Morocco

Title: Photoluminescence lifetime stability studies of π -diketonate europium complexes based phenanthroline derivatives in Luminescence Solar Concentrators LSCs films

Laila El Foujji, UM5 and UM6P, Morocco

Title: Development of polyvinylidene fluoride/graphene oxide composite beads for enhanced water treatment and pollution remediation

Atefeh Bozorgi, Alborz University of Medical Sciences, Iran (Islamic Republic of)

Title: A structure-activity relationship study on cytochrome 3A4 inhibitors: Structure and crucial features

Shawn Gouws, Nelson Mandela University, South Africa

Title: Characterization of OER catalysts for green hydrogen production via PEM water electrolysis

Chantale Njiomou Djangang, The University of Yaounde I, Cameroon

Title: Used of industrial minerals to improve portland cement's sustainability

Brij Bhushan Tewari, University of Guyana, Guyana

Title: Metal complexes in biology and medicine: The system aluminum (III)/chromium (III)/iron (III) – norvaline

Fatoumata Camara, Université Nangui Abrogoua, Cote d'Ivoire

Title: Evaluation of antibacterial activity and susceptibility antibiotics of native lactic acid bacteria from tilapia (*Oreochromis niloticus*) in Ivory Coast

John Godwin, Kogi State College Of Education, Nigeria

Title: Nanochemistry: Current perspective and further prospects with Artificial Intelligence (AI)

Oral presentation slots are available

Poster Presentation

Andria Slaughter, Oregon State University, NASA Oregon Space Grant Consortium, United States

Title: Protein turnover in space by: Andria slaughter

Huihui Li, University of New South Wales, Australia

Title: Single-Atom Ru engineering in Co₃O₄ tailors metal-oxygen covalency for oxide path mechanism-driven acidic water oxidation

Jekaterina Ivanova, Latvian Institute of Organic Synthesis, Latvia

Title: Synthesis and biological evaluation of novel TrxR inhibitors as anti-cancer agents

Aniket Kulkarni, National University of Singapore, Singapore

Title: Design, synthesis, and antimicrobial evaluation of a naphthalene-based conjugated oligoelectrolyte against resistant pathogens

Noga Bregman, Tel Aviv University, Israel

Title: Chemistry Aware Lifting of Molecular Substructures using TNN

Samar Nafafaa, Ziv Medical Center, Israel

Title: Evaluation of complement proteins C3, C4, and CH50 in ICU patients with COVID-19: No clear correlation with disease severity

Mona Nassar, Ziv Medical Center, Israel

Title: Improving point-of-care testing accuracy through training and supervision

Cristian Catalin Gavat, University of Medicine and Pharmacy Grigore T. Popa, Romania

Title: Fundamental role and essential biomedical applications of chelated metal complex combinations in cancer therapy

Anamika Brahma, University of Delhi, India

Title: CuFeO₂@Agar@CuO nanocatalyst: A sustainable approach for synthesizing 1,4-benzodiazepines and 5-aryl tetrazoles

Prayash Chakraborty, Jagannath Gupta Institute of Medical Sciences & Hospital, India

Title: Interdisciplinary studies in pharmacology, pathology, microbiology and chemistry in undergraduate course of medicine: A real outcome based learning in mode of action of drugs and identification of diseases

Anshu Tyagi, Thapar Institute of Engineering and Technology, India

Title: Moisture resistant K-loaded ZIF-8 catalyst for glycerol carbonate production

Mahmoud Mohamed Abd Rabuo Abd Elaziz, Zagazig University, Egypt

Title: Unlocking the potential of starch: Trends and transformations in the derivatives market

Tarek Kamal Motawi, Cairo University, Egypt

Title: Potential serum biomarkers for early detection of diabetic nephropathy

Mariem Ben Jemaa, University of Tunis El Manar, Tunisia

Title: Synthesis, spectroscopic characterization, DFT calculation, of a new hybrid compound (C₁₁H₁₀N)₂[ZnCl₄]

Yahya Fahim Al Khafaji, University of Babylon, Iraq

Title: Ring opening polymerization of new schiff base complexes derived from [Bis-(2,6 diisopropylaniline) furfural and 2,2'-oxydianiline

Odwa Mapazi, Mintek, South Africa

Title: Chemical profiling of metallurgical-grade silicon by ICP-OES after fabrication by aluminothermic reduction

Irvin Noel Booysen, University of KwaZulu-Natal, South Africa

Title: Anti-amyloid aggregation and anti-hyperglycemic activities of ruthenium uracil Schiff base compounds and their chitosan-polyvinyl alcohol electrospun nanofiber conjugates

Motlalepula Nete, NECSA, South Africa

Title: Separation of niobium and tantalum fluorides by precipitation with P-phenylenediamine

Sama Ila Abubakar, Gombe State University, Nigeria

Title: Mechanistic understanding of the transfer hydrogenation of ketones catalysed by imino-NHC Co(III) complexes by spectroscopic and analytical methods

Amel Salah Mobark Twfeek, University of Khartoum, Sudan

Title: Inner sphere oxidation of 3,9-dimethyl-4,8-diaza-3,8-undecadiene-2,10-dione dioximecopper(II) complex by N-bromosuccinimide to copper(III) in aqueous acidic solutions

Poster presentation slots are available
